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, D/GG/F 22 Aug 1958 25X1A9a

MEMORANDUM FOR: Deputy Director (Intelligence)

SUBJECT:

Probable Location of Chinese Sputnik Launching Site

1. Recent reports from Warsaw and

are the latest of a series

China in launching an earth satellite. Considering this news in the light

indicating that the Soylet Union has decided to cooperate with Communist

of geographic research currently being done on possible guided missile

ranges in Communist China, it is possible to develop a geographic estimate

of the probable locale of a Chinese earth satellite vehicle launching.

2. Ksoviet cooperation of for a missile powerful enough to launch an a earth satellite into orbit would likely require Soviet personnel, Soviet missiles, Soviet launching equipment, and Soviet supporting equipment. The Chinese participation, in all probabi

technical observation and button fushing. A transplanted Sputnik may be

expected to be made up of the standard three-stage Soviet ICBM that propelled m/o

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4. Assuming that this will be one shot performance, Soviet cooperation will be construction of a permanent ICBM launching base, but the use will be made of the Soviet mobile train developed for the operational deployment of ICBM missiles. It is estimated that the Soviet ICBM mobile train will include transporters capable of transporting 70- to 110-foot long missiles, possibly four or more large and heavy 60-foot liquid oxygen transporters per missile, a number of standard tank cars of liquid fuels, as many as 10 or 13 power generator cars weighing as much as 113 tons each, and an indeterminate number of coxcars, dining, electing, and baggage cars,

In only one area of China proper can a Soviet specialized train move into the country on Soviet wide-gauge tracks. Beyond the gauge-change points at Manchouli or Sui-fen-ho a mobile launching train would have to be fitted and first with bogsy wheels adopting it to standard gauge, or the equipment on the train would have to be transferred to Chinese rolling stock. Even if this were done, movement of the heavy launching train over low capacity stretches of Chinese track would be a difficult task. On the newly-completed Trans-Mongolian railroad, however, the gauge change at Chi-ning is well within the Chinese border.

Reasonably level terrain in head of the measurement of salchite rail spurs to service the Sanchite launching area and the mobile launching and the mobile launching train. It is particularly important that he major terrain obstacles hinder the transport of the missile and its supporting equipment to the launching area or hamser the development of instrumentation sites and other ground

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areas of mainland China that are comprised of rugged mountains, eroded plateaus, hill lands, or narrow river valleys. The steppes of Inner Mongolia north of Peiping, however, metch the terrain requirements well, they are level to rolling, sparsely populated, short-grass covered plains, similar to the northern prairie states of the U.S.

within a radius of 25 miles and for an even greater distance around the missile booster impact area -- about 230 to 460 miles downrange.

Abbit at shows quantity appears areas east of a line connecting Harbin, Peiping, and Ch'eng-tu see too populated to permit ICBM missile launchings. In order to conform to established Soviet instrumentation in the northeast, it is probable that the Chinese Sputnik will be launched in a northeasterly direction. As indicated by the map, the hazard of a missile booster impact rules out possible launch areas in northern Manchuria. The booster impact area of a launching from the Chi-ning -- P'ang-chiang area, on the other hand, would fall in sparsely populated areas.

7. Other launching criteria show similar locational indications. Low precipitation and wind speeds in the Chi-ning area are advantageous for launching operations. Wireline facilities along the Trans-Mongolian railroad are available for communications links between Peiping and the site, as well as for instrumentation support between the site, Ulan Ude and down-range instrumentation points to the northeast. Ad hoc radio communications

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arrangements, of course, might well supplement the land-line links. Security precautions would also be more easily enforced, while at the same time the location remains relatively accessible from Peiping -- a little more than 200 air-miles away.

The operational requirements of a Soviet-sponsored Chinese earth

satellite missile launching within the next few months balanced off against

the invariables of Chinese geography therefore suggest the strong possibility

of a launching in the Mongolian steppe northwest of Peiping. On a long-term,

program, it is entirely possible that a Sputnik launching would follow the

development of a permanent Chinese ballistic missile testing and training

launching of a Chinese Sputnik however, the next impact of the missile will be

make its initial orbit.* And western nuclear countries will know that the

Soviets have been able to transport an ICBM over \$500 miles of Soviet rail

line to Chima, set it up, and fire it.

*All of Southeast Asia and Australia would be within the ICBM maximum range of 5500 nautical miles on a great-circle route from the Soviet Far East.

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